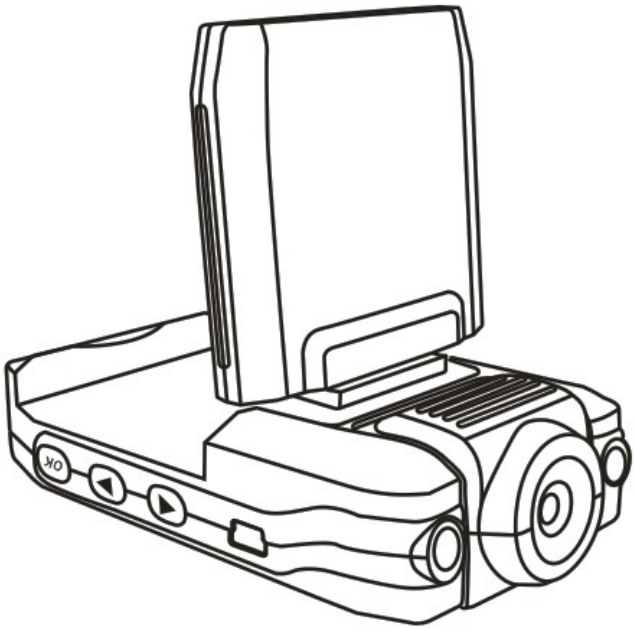
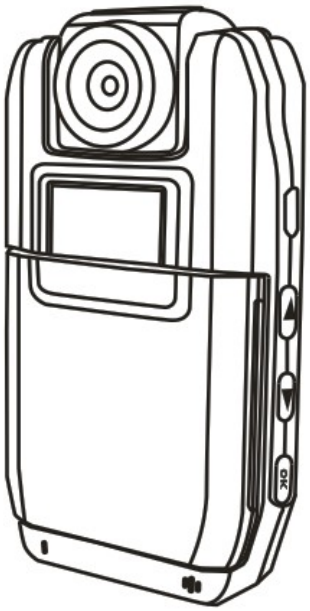
Car DVR User Manual





Preface

Thank you for purchasing this DVR, this device has a unique ultra-portable design; it can be used in various fields, to bring you convenient, safe, colorful daily life. Please read this manual carefully before using and place it in a safe place for future reference use.

Notes

Please strictly follow relevant state laws, this product are not allowed to be used for any illegal purpose.

● Please use the device under natural temperature, do not work under the temperature which human body cannot adapt to.

● Please do not place the device in wet environment. The device is not waterproof, please avoid the water spray, or expose the product under rain

● Do not attempt to open the shell or attempt to repair, if the device or any parts are defective, please go to the professional maintenance point for repairing.

● Do not use harsh chemicals, cleaning solvents or cleaning agents to clean the device. Please use a slightly damp soft cloth to clean the device.

● Please use it under sufficient light, please do not make the lens directly face to the sun or other super-light so as to avoid damage to the optical components.

● Do not use it in dusty environment in order to avoid the lens and other components to be dusty and affect the camera effects

● Please don't discard the product at random considering the environment. It is prohibited to throw this product into a fire as it may cause explosion.

1, Key features

This device is to record video and audio when you are driving, so that you can have evidence when there is any accident and you can record moving scenery when you are driving. It could also be used as a portable DV and web camera.

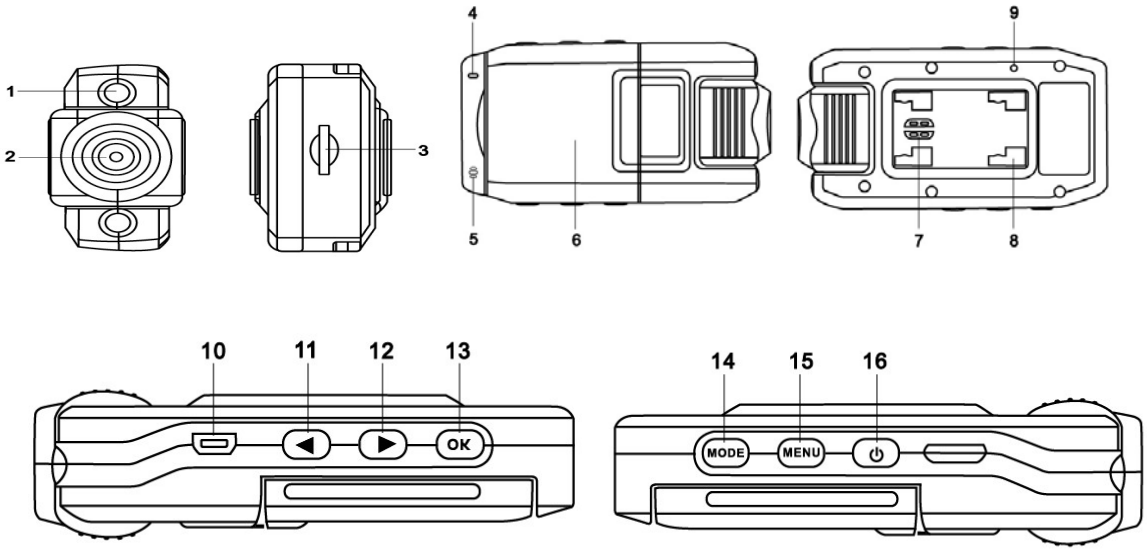
Its key features are as follows:

- This product is with small size, 180-degree swivel lens, 120 degrees super wide-angle recording, high-resolution 270 degree swivel LCD display. It is convenient for various occasions to record or take pictures in multi-angle and high-definition.
- HD720P car DVR with 2 inch TFT display;
- Auto Sensitivity Control, High performance dual LED lights.
- 1/4 inch color CMOS WXGA HD sensor, 0.3M Pixel;
- Mode: video recorder/camera/motion detection/review;
- Recording resolution: VGA（640x480）、QVGA（320x240）、SXGA（1280x960） @30fps

- Recording video format: AVI;
- Camera optional with 12M, 8M, 5M, 3M, 2M, 1.3M, VAG size
- Lens angel: 120°
- Storage Medium: Micro SD card;
- Support Real-time and date display on video with time stamp.
- Recording automatically after the car powered-up when connect the car adaptor;
- The device records in cycles, it will automatically cover old memory, scroll and always keep the newest recording by sections optional with 1 minute, 3 minutes and 5 minutes;
- Support motion detect, it will automatically record as long as there is any human or objects movement in front of the device.
- Built-in rechargeable battery;
- The device supports video output, live playback, through the car display you can check the record video content on the spot. It also supports PC output and USB2.0 interface to review recording files;
- Built-in MIC and speaker;
- Can be used as Web camera after install the driver in the PC and connect to PC by USB cable.

2, Operation

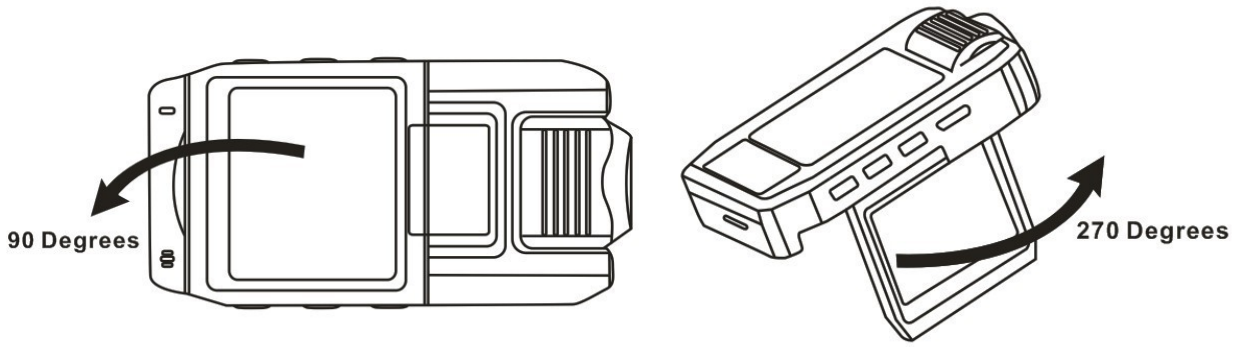
1) Appearance and button descriptions



1. LED Lights
2. Lens
3. Micro SD card slot
4. Red/Blue indicator
5. Microphone
6. 2-inch LCD
7. Speaker
8. Mount Hole
9. Reset hole
10. USB
11. UP
12. Down
13. OK
14. Mode
15. Menu
16. On/Off

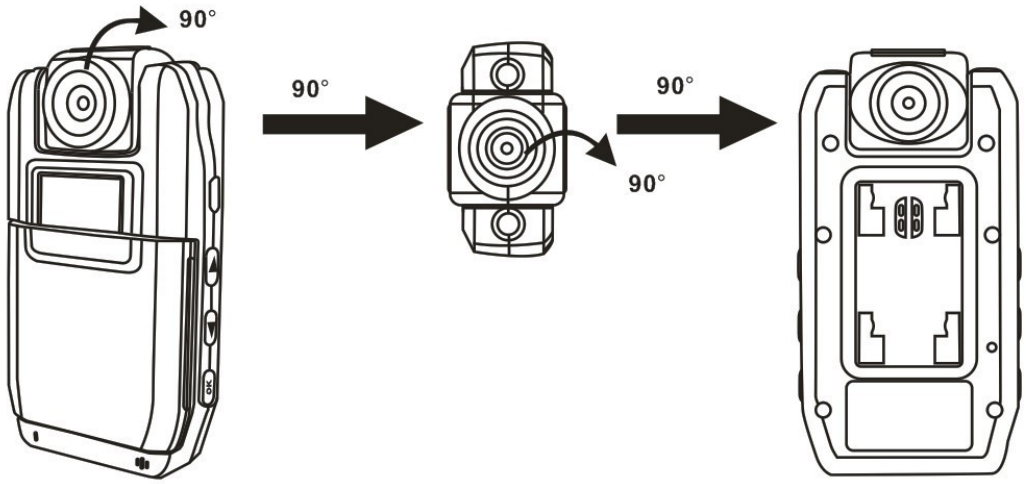
2) Rotating the LCD display

LCD screen can swivel downward 90 degrees, forward to the lens direction 270 degrees.



3）Rotating Lens

Lens can also rotate 180°as show on images below.

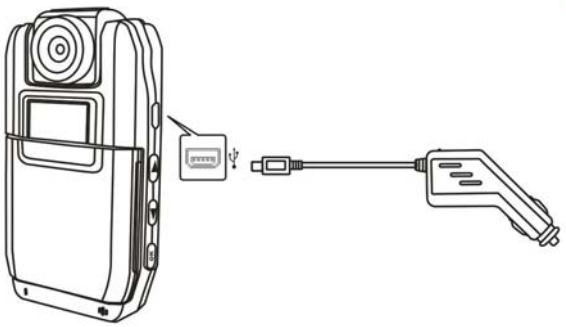


3. Charging

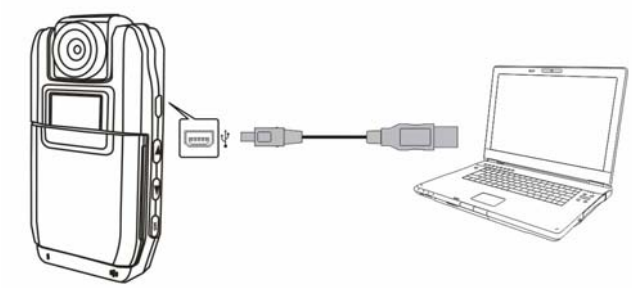
There are two ways to charge the battery; it takes around 270 minutes to do fully charging.

1） **Using the car charger.**

Note: When using car charger, the battery charging progress on LCD stops, that means charging is complete



2）**Using USB cable to connect with computer to get charged.**



4.System Settings

Before using this device, it is necessary to make some basic settings, such as date and time, language, auto power off, reset the system etc.

After power on, press MODE button to switch to camera mode.

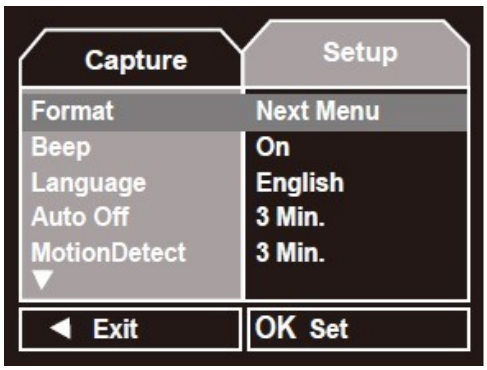
Double press the MENU key to enter the function setup menu.

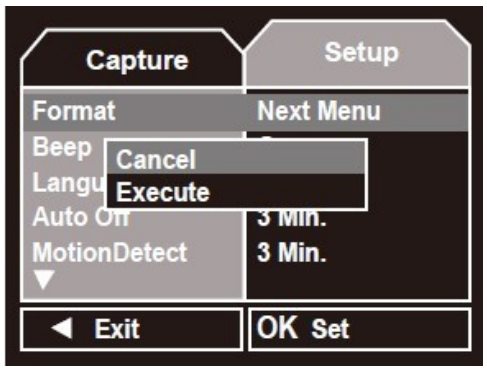
press the MENU button again to exit setup menu and return to camera mode.

1) Format

Use this feature to format the current storage media; this function will delete any information in the storage media.

In the system setup menu, press the UP or DOWN button and select 'Format' option. Press the OK button, then press the UP or DOWN button to select 'Execute ' option, then press the OK button to begin formatting.

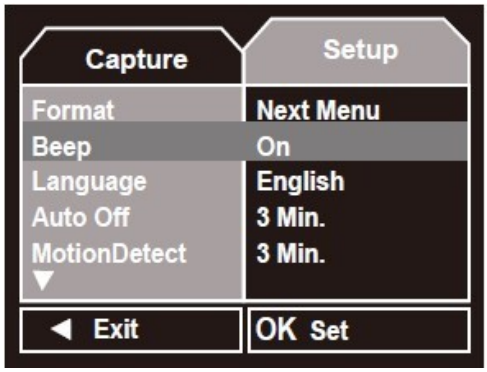


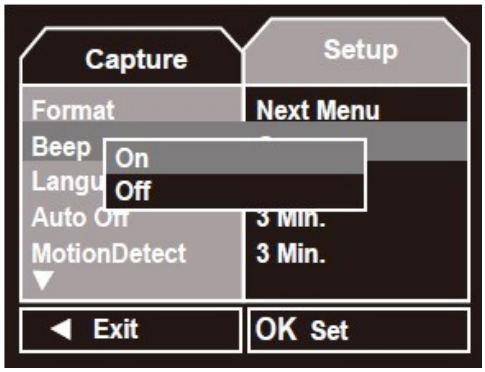


2) Beep

In the setup menu, press UP or DOWN button to select 'Beep'. Press the OK button to enter the selection screen, then press the UP or DOWN button to select 'On' or 'Off' option, then press OK to confirm selection and exit.

When ‘On’ is selected, there will be ‘Beep’ sound comes out when pressing keys. When ‘Off’ is selected, there won’t be any sound when pressing keys.

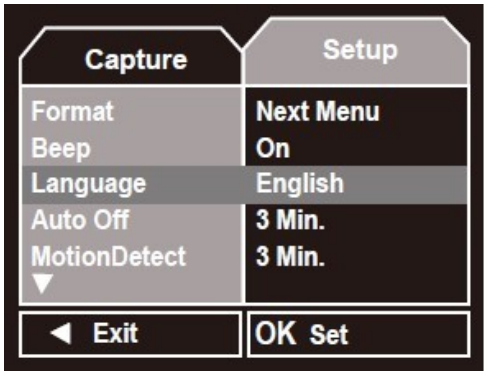




3) Language setting

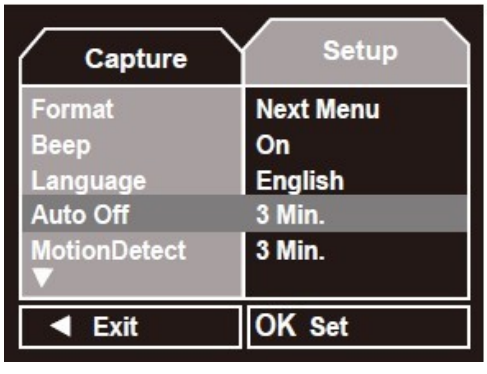
On the setup interface, press the UP or DOWN key to select the 'Language' option.

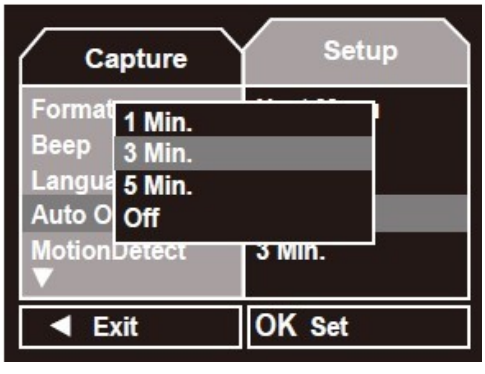
Press OK to enter the selection interface, press the UP or DOWN button to select the following languages: English, French, German, Italian, Spanish, Portuguese, Traditional Chinese, Simplified Chinese, Japanese, Russian and etc. Then press OK key to confirm selection of language and get out to main menu.



4) Auto Off

In the setup interface, press the UP or DOWN button to select the 'Auto Off' option, press the OK button to enter the auto off interface, press UP or DOWN to select among 1 minute, 3 minutes, 5 minutes, and Off, then press the OK button to confirm auto-off time selection and get back to main menu. For example, when you select 1 minute, if you don’t operate the device for 1 minute, it will be powered off automatically.

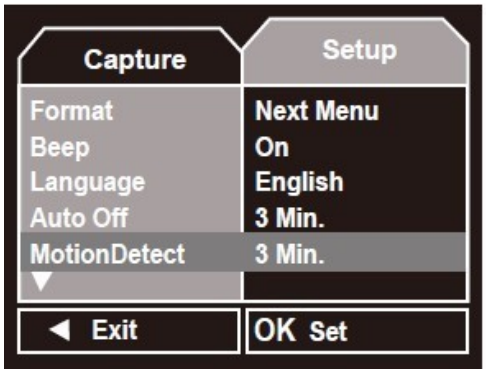


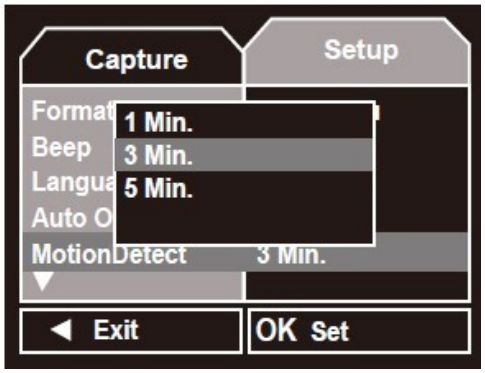


5) Motion Detection

This feature is to set the time of the saving section under motion detection mode.

In the setup interface, press the UP or DOWN button to select the 'Motion Detect' option, press the OK button to enter the sub-menu, press UP or DOWN to select 1 minute, 3 minutes, 5 minutes, then press the OK button to confirm. For example, when you select 3 minutes, it will save each recording sections in every 3 minutes.





6) System Reset

This feature will make all settings back to default.

In the system setup menu, press the UP or DOWN button to select ' Sys. Reset ' option. Press OK, select 'Cancel' or 'Execute' option, then press OK button to confirm.

7) Light Frequency

Under the light frequency option, you can set it suitable for local places.

In the system setup menu, press the UP or DOWN button to select 'Light Freq.' option, press OK, then select 60Hz or 50Hz, press the OK button to confirm. Make the outside light frequency to be corresponding light frequency in the device, you will get better display effect.

8) Date Input

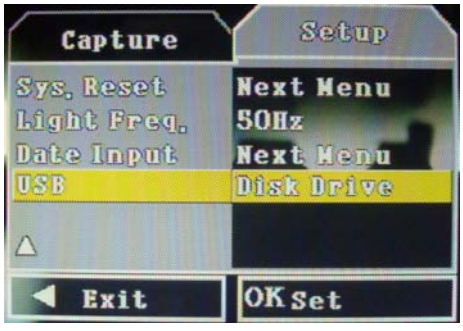
In the system setup menu, press the UP or DOWN button to select 'Date Input ' choices.

Press OK, then press the UP or DOWN button to select ‘Off’, press OK to confirm and exit. When press the UP or DOWN button to select ‘Set’, then press OK to enter the time and date settings, in this interface press MENU button to select the places need to be adjusted and press the UP or DOWN button to adjust the data, after adjusting, press OK to save and exit. The date and time set will be displayed on the photos and recording videos.

9) USB

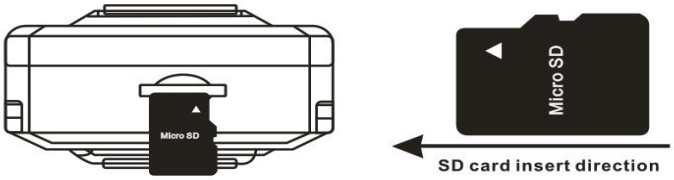
This option is to select the device to do as a disk drive or PC camera after connecting with a computer.

In the system setup menu, press the UP or DOWN button to select 'USB' selection, press OK button, then press the UP or DOWN button to select 'PC camera' or 'disk drive' , then press OK button to confirm. When select “PC camera” option, the device can be used as PC camera; when select ‘disk drive’, you can review files in the memory on PC;



5. Motion detection recording mode

Please make sure that the SD card is inserted to the product.



Short press the On/Off button to enter the MD recording mode, the device will record automatically and save in sections every 3 minutes automatically in default, you can also set the time of the sections to be 1 minute, 3 minutes, 5 minutes same as the way setting the Motion detection in system setting.

Under this mode, when there is any movement of human or objects before the camera of the device, it will automatically detect and record.

Press UP or DOWN key to select the digital zoom function.

Press MODE key to enter camera mode.
To change the menu parameters, such as (SIZE, etc.), press MODE key to switch to manual recording mode, then press Menu button to enter menu settings.

Note: After finishes recording of a file, it won't record if there is no movement before the camera of the device.

Under motion recording mode, please make sure the memory remaining time is more than 5 minutes, if less than 5 minutes, it will automatically overwrite the old files.

6. Camera mode

After powered on and in the motion detection recording mode, short press MODE button to switch to camera mode. Under this mode, you can use it as camera to take photos.
Short press the OK button to take photos and save;
Press UP or DOWN button to do digital zoom;
Press MODE button to enter the recording mode.
Press MENU button to enter the camera menu.

7. Manual Recording

Power on and switch MODE button to enter recording mode. Under this mode, you can record files manually.
Short-press OK button to start recording and press OK again to stop recording and save.

Press UP or DOWN button to do digital zoom.
Press MODE button to enter preview / playback mode.
Press MENU button to enter the recording menu.

Under recording mode, please make sure the memory remaining time is more than 5 minutes, if less than 5 minutes, it will not continue recording.

8. Preview / Playback Mode

Power on and switch MODE button to enter Preview / Playback mode.
Under this mode, you can review recording files and photos in the memory.
Press UP or DOWN to select photos or videos. Under playback video files, press OK button to start playback or stop.
Then short press MODE button to exit playback mode.
Press MENU button to enter the playback menu.

When playing video files, press the UP button to select 1X/2X/4X/8X rewind here. Press the DOWN button to select 1X/2X/4X/8X fast forward here.

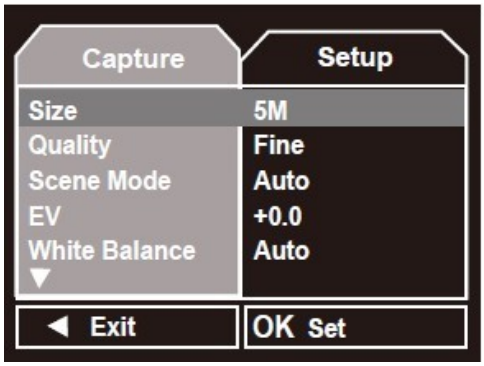
9. Camera menu

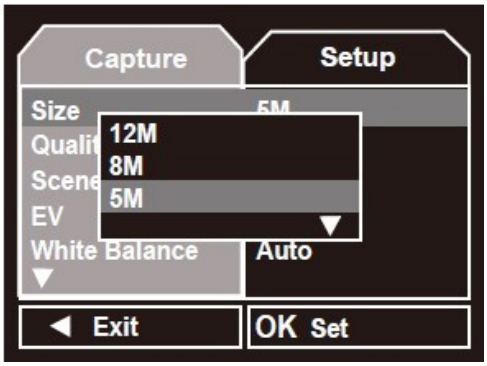
Under camera mode, press MENU to enter the camera menu. Twice press MENU to exit camera menu and return to camera mode. Under this menu, you can adjust settings to get photo effect you need.

1) Resolution

Use this option to set the size of the image to be taken, clearer image contains the more details and requires the bigger storage space.
In the camera menu, press the UP or DOWN button to select 'size' option, press the OK button to enter sub-menu, press the UP or DOWN button to select 12M, 8M, 5M, 3M, 2M, 1.3M, VGA, then Press OK button to confirm.

If you select 12M, the photo size would be the biggest, when you select VGA, the photo size would be the smallest.

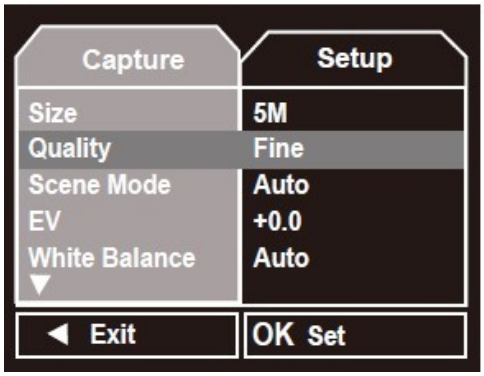


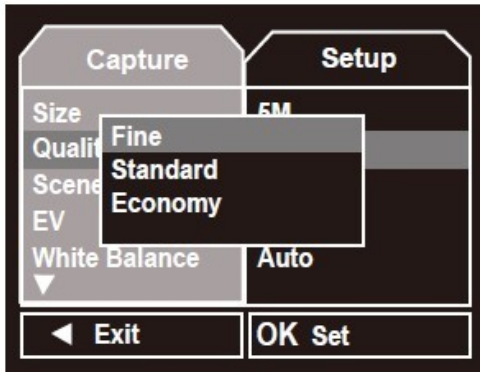


2) Quality

This option sets the image quality, better quality will require the bigger storage space.
Under the camera menu, press the UP or DOWN button to select 'quality '

option, press the OK button to enter sub-menu, press UP or DOWN key to select Fine, standard or Economy, then press OK button to confirm.



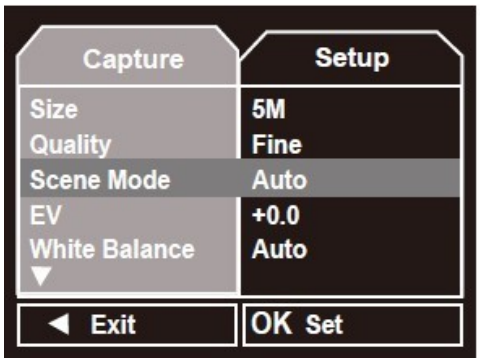


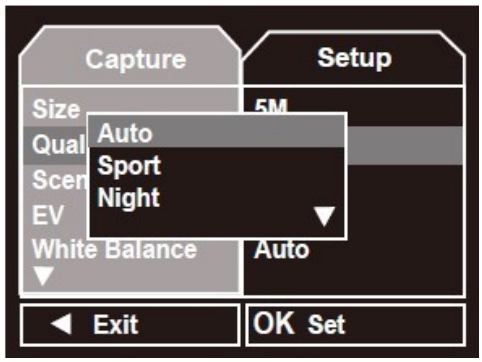
3) Scene mode

Depending on different environments, choose different scene modes, in order to reach the best camera effects.

In the camera menu, press UP or DOWN button to select the 'scene mode' option, press the OK button to enter sub-menu, press UP or DOWN button to select Auto, Sport, Night, people, landscape, backlight etc., then press the OK Button to confirm.

When you select Auto mode, it will automatically adjust to the suitable status according to different outside environments. When you select Sport mode, it is suitable when you are doing sports. When you select Night mode, it is suitable for night.



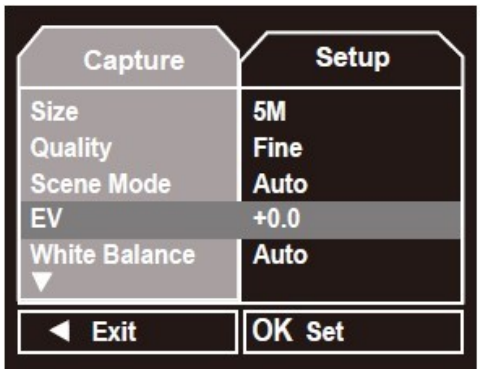


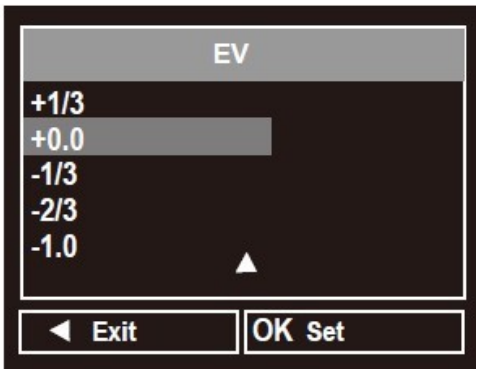
4) Exposure Compensation

Select different EV according to different light conditions.

In the camera menu, press the UP or DOWN button to select 'EV' option, press the OK button to enter sub-menu, press the UP or DOWN button to select different exposures, then press OK button to confirm.

When the outside light source is strong, you could decrease to lower EV value, and when the outside light source is weak, you could increase to higher EV value.



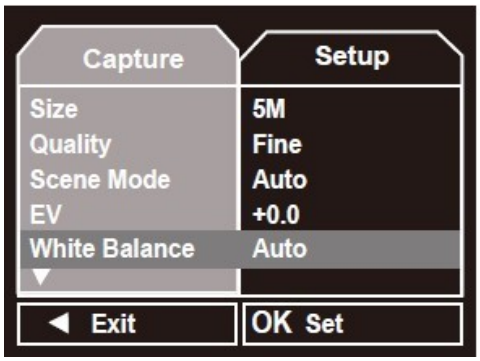


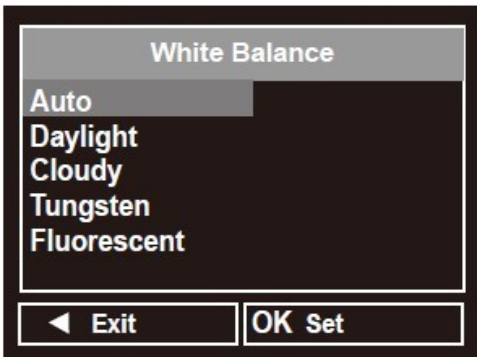
5) White Balance

Under this menu, you can adjust the selection according to the outside environments.

Under camera menu, press the UP or DOWN button to select the 'white balance' option, press the OK key to enter sub-menu, press UP or DOWN button to select Auto, Daylight, Cloudy, Tungsten, Fluorescent, and then press OK button to confirm.

When select ‘Auto’, it will adjust automatically according to the outer environment. When select ‘Daylight’, it is suitable for fine day. When select ‘Cloudy’, it is suitable for cloudy day. When select ‘Tungsten’, it’s suitable under Tungsten light. When select ‘Fluorescent’, it’s suitable under Fluorescent light.

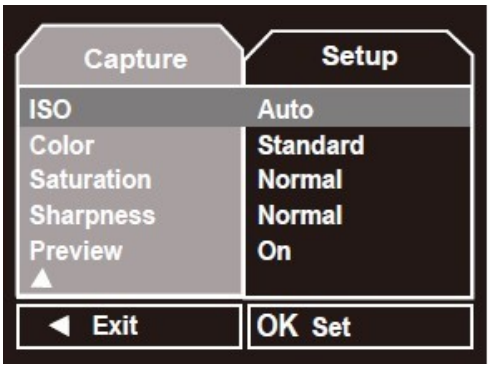


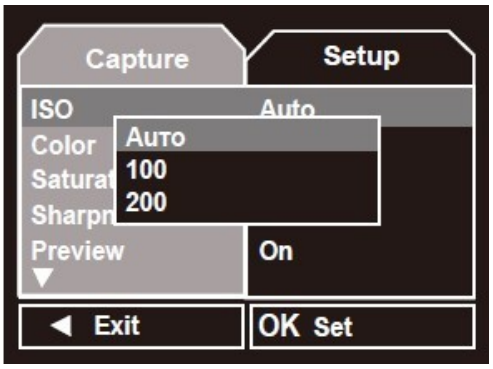


6) Sensitivity

Select the corresponding ISO value according to different light conditions. In the camera menu, press the UP or DOWN key to select 'ISO' option, press the OK key to enter sub-menu, press the UP or DOWN button to select automatic, 100,200, and then OK button to confirm.

When select Auto, it will adjust the value according to the outer environment. When the outer light source is strong, please select 100. When the outer light source is weak, please select 200 to get better photo effect.

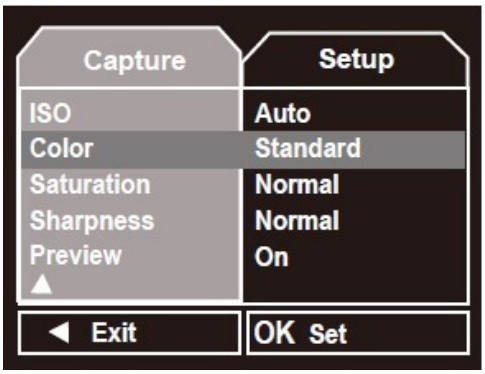


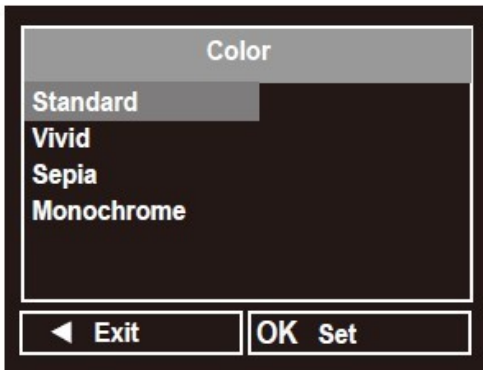


7) Color

The device can snap standard and vivid colorful images, it can also take Sepia and Monochrome. Please select the effect you need.

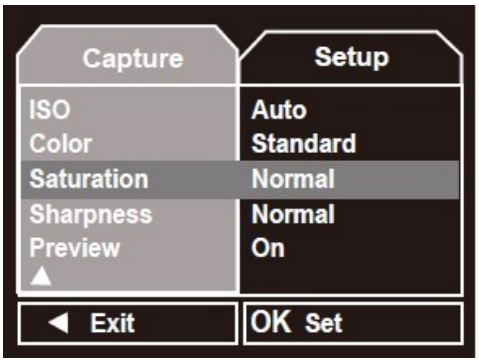
In the camera menu, press the UP or DOWN button to select the 'color' option, press the OK key to enter sub-menu, press UP or DOWN key to select ‘Standard’, ‘Vivid’, ‘Sepia’, ‘Monochrome’, then press OK button to confirm.





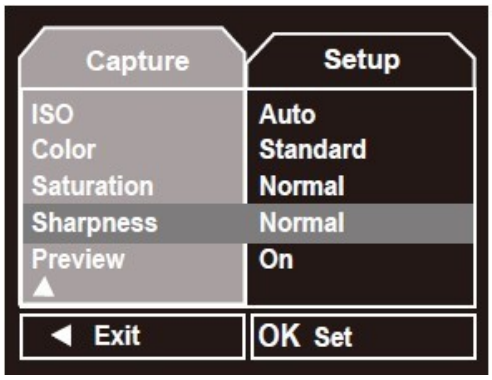
8) Saturation

In the camera menu, press the UP or DOWN button to select the 'Saturation' option, press the OK key to enter sub-menu, press UP or DOWN key to select High, Normal, Low, then press OK button to confirm.



9) Sharpness

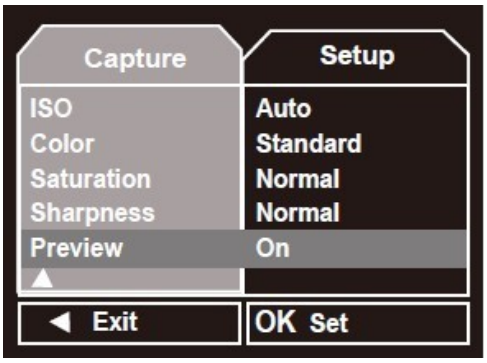
In the camera menu, press the UP or DOWN button to select the 'sharpness' option, press the OK key to enter sub-menu, press UP or DOWN key to select Hard, Normal, Soft, then press OK button to confirm.

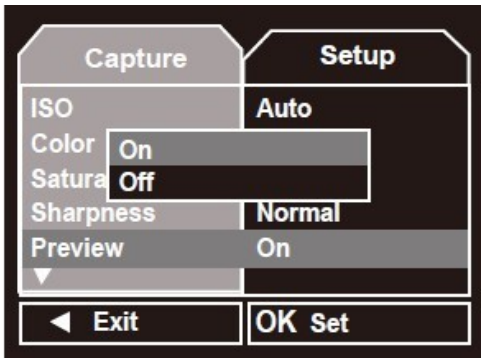


10) Preview

Open the preview function, you can have a preview of the image effects when taking pictures. In the camera menu, press the UP or DOWN button to select the 'Preview' option, press the OK key to enter sub-menu, press UP or DOWN button to select ‘On’ or ‘Off’ , then press OK button to confirm.

When you select ‘On’, you can preview the current photos taken. When you select ‘Off’, you could not preview photos taken.





11) Time stamp

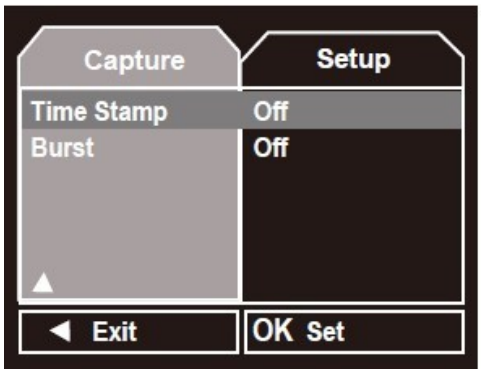
Open the time stamp function, the snapped image will have time stamp on it.

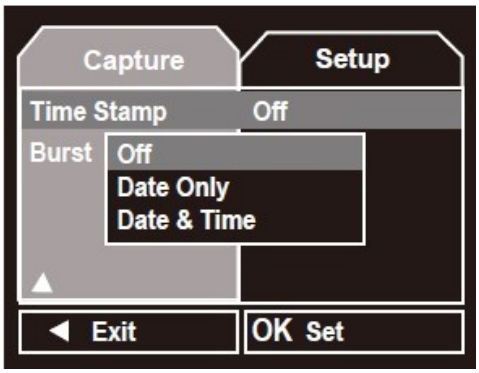
In the camera menu, press the UP or DOWN button to select the 'Time Stamp' option, press the OK key to enter sub-menu, press UP or DOWN button to select Off, Date Only, Date & Time, then press OK button to confirm and to exit.

When you select ‘Off’, there won’t be date or time on the image you take.

When you select ‘Date Only’, the image will only have date stamp.

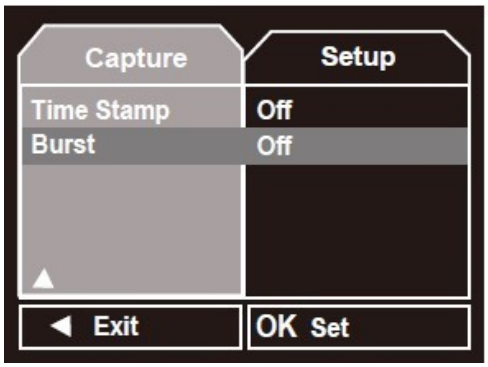
When you select ‘Date &Time’, the image will have date and time stamp.

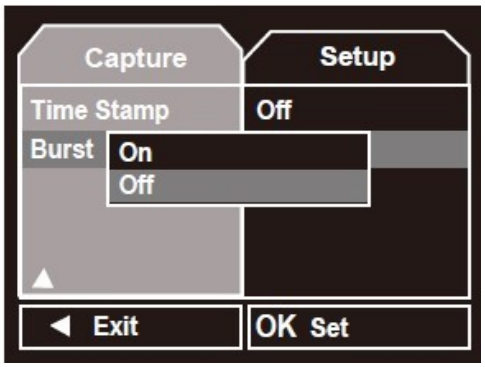




12) Burst

Turn on the Burst option, it will snap three images continuously each time. In the camera menu, press the UP or DOWN button to select the 'Burst' option, press the OK key to enter sub-menu, press the UP or DOWN key to select 'On', 'Off', then press OK button to confirm and return.





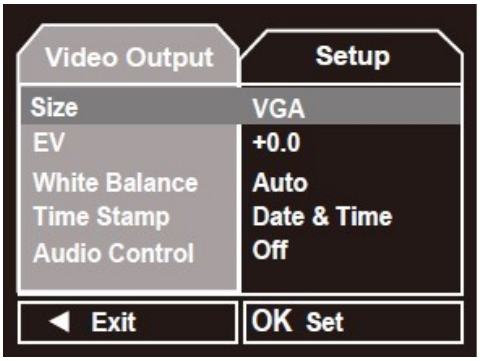
10. Recording menu

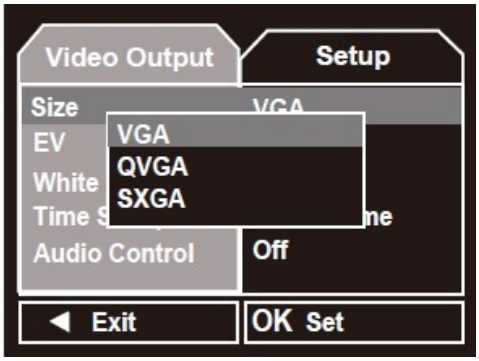
Under the recording standby mode, press the MENU key to enter the recording menu. Twice press MENU to exit recording menu and return to recording mode.

1) Recording resolution

Use this option to set the recording resolution, the bigger the screen, the bigger the required storage space.

In the recording function menu, press UP or DOWN button to select 'Size' option, press the OK key to enter sub-menu, press UP or DOWN button to select VGA（640x480）、QVGA（320x240）、SXGA（1280x960）, then press OK button to confirm.



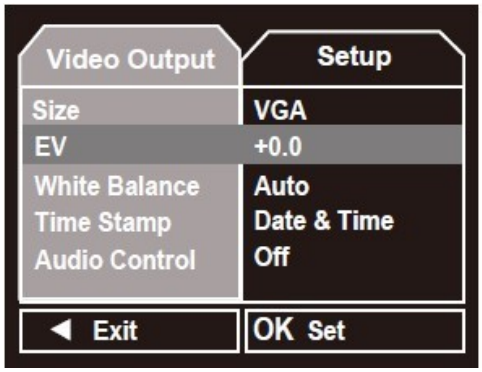


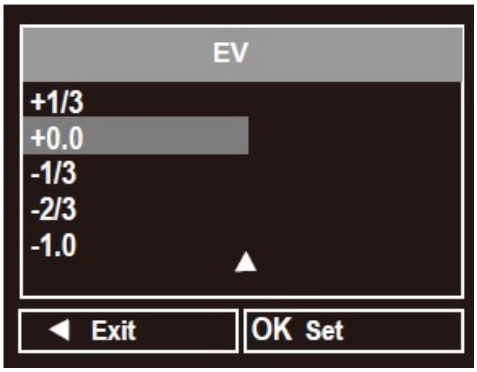
2) Exposure Compensation

Selected different EV according to different light conditions.

In the recording function menu, press UP or DOWN key to select 'EV' option, press the OK key to enter sub-menu, press the UP or DOWN buttons to select different exposures, then press OK button to confirm.

When the outside light source is strong, you could decrease to lower EV value, and when the outside light source is weak, you could increase to higher EV value.



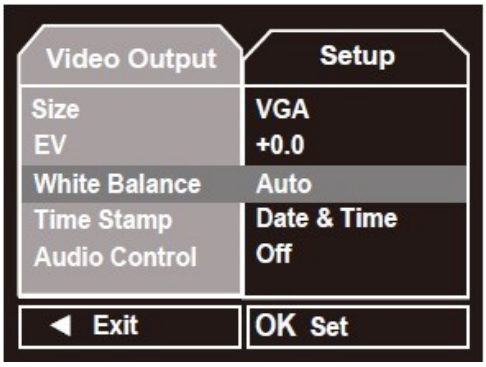


3) White Balance

Based on the light condition, use this option to amend different shades.

In the recording function menu, press the UP or DOWN button to select the 'white balance' option, press the OK key to enter sub-menu, press UP or DOWN button to select Auto, Daylight, Cloudy, Tungsten, Fluorescent, and then press OK button to confirm.

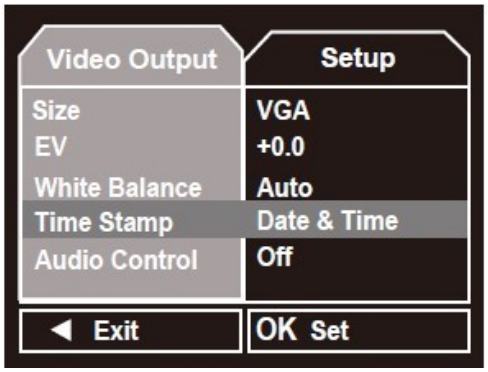
When select ‘Auto’, it will adjust automatically according to the outer environment. When select ‘Daylight’, it is suitable for fine day. When select ‘Cloudy’, it is suitable for cloudy day. When select Tungsten, it’s suitable under Tungsten light. When select Fluorescent, it’s suitable under Fluorescent light.

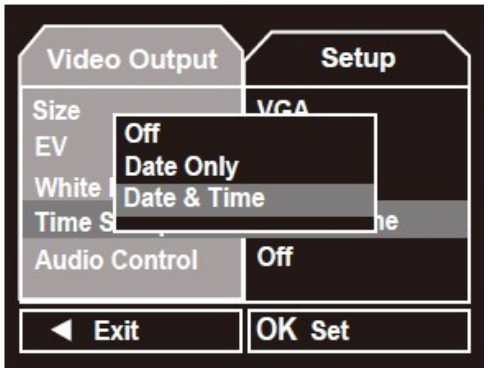


4) Time stamp

In the recording function menu, press the UP or DOWN button to select the 'Time Stamp' option, press the OK key and select ‘Off’, ‘Date Only’, ‘Date & Time’, then press OK button to confirm.

When you select ‘Off’, there won’t be date or time on the video you record. When you select ‘Date Only’, the video will only have date stamp. When you select ‘Date& Time’, the video will have date and time stamp.



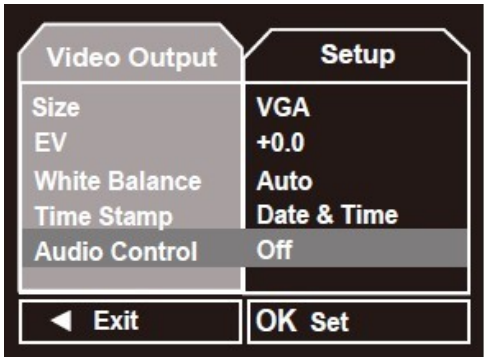


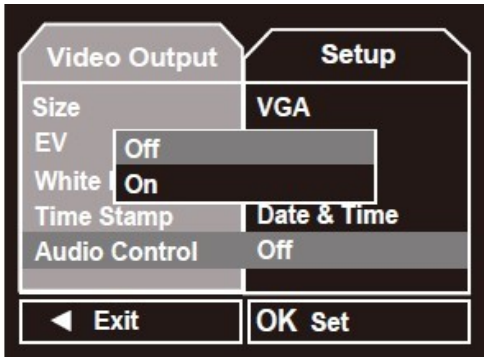
Note: The settings of motion detection can only be set here.

5) Audio Recording Control

In the recording function menu, press the UP or DOWN button to select the ' Audio Control ' option, press the OK key and select ‘Off’ or ‘On’, then press OK button to confirm.

When you select ‘ON’, the device will also record audio when recording video. When you select ‘OFF’, the device will not record audio.



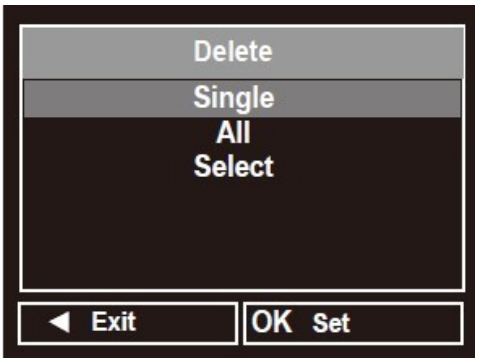


11. Preview / playback menu

In preview / playback standby mode, press the MENU button to enter the preview/playback menu. Twice press MENU to exit preview/playback menu and return to preview / playback mode.
Under this mode, you can playback video recorded and photos.

1） Delete

Use this function to delete the saved file in storage media.
In the preview/playback menu, press UP or DOWN button to select 'delete' option, press the OK key to enter sub-menu
Delete Single: Press UP or DOWN button to select ‘single’ then press OK to confirm delete.
Delete All: Press UP or DOWN button to select ‘All’ then press OK to enter to sub-menu, press UP or Down to cancel or execute, then press OK to confirm.
Select: Press UP or Down button to enter Select menu, press OK to enter to ‘thumbnail mode’, press UP or Down button to select the file to delete, then press OK to confirm deletion.



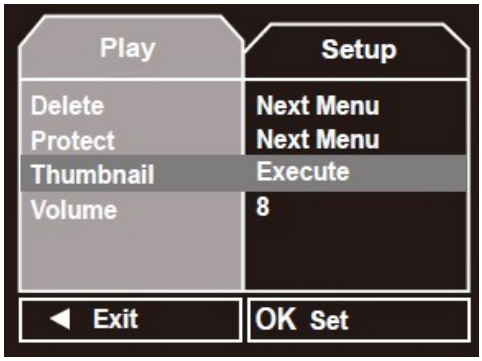
2） Protect

This feature can protect the locked files to avoid being deleted unexpectedly.
In the preview / playback menu, press UP or DOWN button to select 'Protect' option, press the OK key to enter sub-menu
Protect Single: Press UP or DOWN button to select single then press OK to enter to sub-menu, press UP or DOWN button to select Cancel or Execute, then press OK confirm protection or cancel protection.
Protect All: Press UP or DOWN button to select All then press OK to enter to sub-menu, press UP or DOWN button to select Cancel or Execute, then press OK confirm protection All or cancel protection All.
Select ‘Protect’: Press UP or Down to select ‘Protect’, press OK to enter to ‘thumbnail mode’, press UP or Down button to select the file to protect, then press OK to confirm protection.

3） Thumbnail

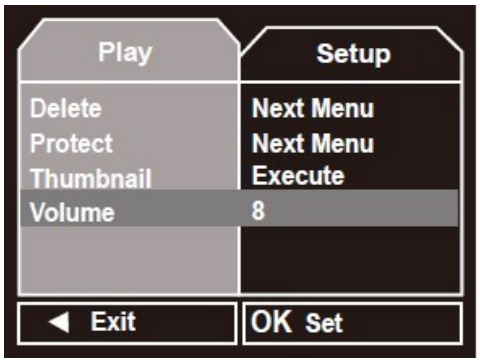
This feature can show the images in thumbnail, you can preview photos/videos easily.

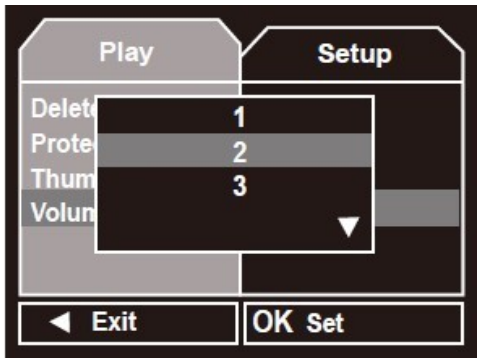
In the preview/playback menu, press UP or DOWN button to select 'thumbnail' option, press the OK key to enter the thumbnails, press the UP or DOWN button to select the file, press the OK button to exit;



4） Volume

In the preview/playback menu, press UP or DOWN button to select 'Volume' option, press the OK to enter the sub-menu, press UP or DOWN button to select playback volume and the maximum is 8, then press the OK button to confirm.



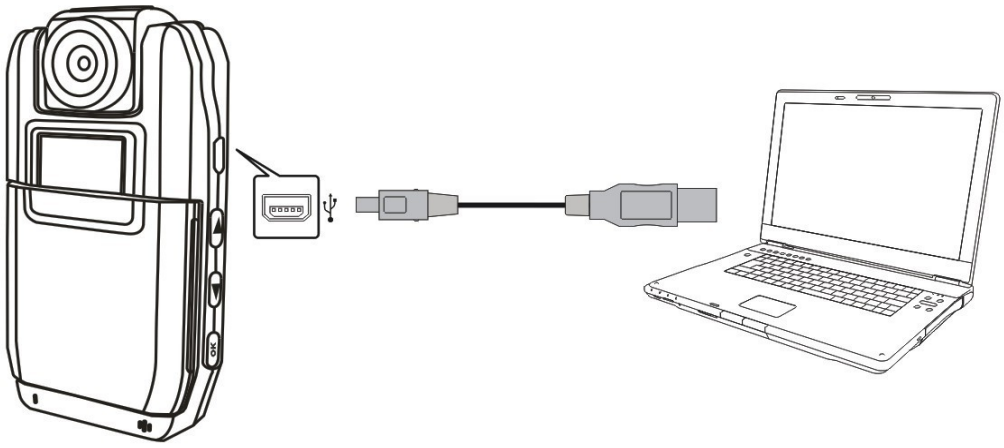


12. Connect to the computer

In the system setup menu, when you select USB as disk driver, it can be used as U disk when connect to the computer, and you can copy, cut and paste, delete the files freely.

After connecting to a computer USB port, the computer will pop up portable

disk icon after a few seconds.



Tips:
a, Connection to PC. If the computer does not recognize or doesn't pop up the portable disk icon in 30 seconds, please re-plug.
b, It is recommended to copy, cut or paste the recorded video file to your computer hard drive firstly then to play, directly playing the video file saved in the internal memory of the device might not play smoothly because the transmission cannot keep up for large data.

13.PC Camera

Please install the driver firstly before using this camera as PC camera in the first time, the driver name is 'STK03N.exe' stored in CD Driver, double-click the file and follow the instruction to complete the installation.
In the system setup menu, select the USB as PC camera, connecting to the computer, click 'Standard Camera' icon in 'My Computer' to use as the computer camera.

Technical Specifications

Video sensor	High resolution CMOS lens
Lens	Fixed Lens，120 degree angle
Storage Media	Micro SD card up to 32G
Photo format	JPG
Photo resolution	12M、8M、5M、3M、2M、1.3M、VGA
Video format	AVI
Recording resolution	VGA（640x480）、QVGA（320x240）、SXGA（1280x960）@30fps
TFT screen	2 inch TFT LCD
Zoom	8 times digital zoom
White balance	Auto、daylight、Cloudy、Tungsten、Fluorescent
Exposure Compensation	-2.0 EV ~ +2.0 EV
Saturation	high、normal、low

sharpness	hard、normal、soft
Auto power off	1 minute、3 minutes、5 minutes
Battery	High-capacity lithium polymer battery
Battery capacity	650mAh
Charging Voltage	DC-5V
Support system	Windows me/2000/2003/XP/vista/Win7/Mac OS/Linux
PC Camera	Resolution 320X240